

CLAIMS

1. A sewage treatment apparatus, comprising:

a solid-liquid separation tank for receiving sewage containing crushed solid contents and collecting the solid contents by solid-liquid separation means therein;

a decomposing treatment tank disposed under the solid-liquid separation tank for receiving the collected solid contents and decomposing the solid contents by aerobic microbes; stirring means for the solid contents disposed in the decomposing treatment tank; and

an aeration tank disposed under the bottom plate which has a plurality of air holes, in the decomposing treatment tank for supplying air or oxygen bubbling in stored water into the decomposing treatment tank through the air holes of the bottom plate.

2. A sewage treatment apparatus according to claim 1, wherein the solid-liquid separation means is an endless rotationally traveling type solid-liquid separation device that comprises:

a conveyor belt endlessly rotationally traveling in an obliquely up and down direction;

a comb-shaped sieve plate disposed so as to cover the upper surface of the conveyor belt and composed of a multiplicity of

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rod-shaped members disposed longitudinally at minute intervals in the width direction of the belt; and

a multiplicity of transportation projections projecting on the upper surface of the conveyor belt at predetermined intervals and sliding between the respective rod-shaped members of the comb-shaped sieve plate.

3. A sewage treatment apparatus according to claim 2, wherein water spray means is disposed to an upper portion in the separation treatment tank.

4. A sewage treatment apparatus according to claim 3, wherein an oil-water separation tank that communicates with a lower portion of the aeration tank is disposed on a side adjacent to the separation treatment tank.

5. A sewage treatment apparatus according to claim 1, wherein the water level in the aeration tank is set higher than the bottom plate of the decomposition treatment tank.

6. A sewage treatment apparatus according to claim 4, wherein at least a part of the sewage, from which solid contents have been removed in the solid-liquid separation device, is discharged into the oil-water separation tank.

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7. A sewage treatment apparatus according to claim 1, wherein the exhaust gas from the separation treatment tank is flown into the oil-water separation tank or into air feed pipes to the aeration tank.

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